

C =====
C = ROUTINE 3 =
C =====

START-JOB: S4MB

PROGRAM START

C *****
C * PROGRAM TO APPEND A JOB TO A BATCH-PROCESSOR
C * THE PROGRAM ASKS FOR BATCH-PROCESS-NUMBER
C * AND BATCH-INPUT-FILE.
C * DEFAULT BATCH-PROCESS-NUMBER IS 1
C * DEFAULT USER-NAME IS SINTRAN (AUX)
C * BATCH-OUTPUT-FILE IS FOUND BY PROGRAM
C *****

INTEGER CR,AUXCAR,BA1,BA2

CHARACTER BACOM * 49
CHARACTER SEMAPH * 10
CHARACTER LISTFI * 11
CHARACTER BATOUT * 11
CHARACTER INPFIL * 30
CHARACTER STARTED (9) * 30
CHARACTER BANO * 1
CHARACTER SLINE * 87
CHARACTER SPACE * 1
CHARACTER KAR * 1

EQUIVALENCE (AUXCAR,KAR)

DATA BACOM /'APP-BA
DATA SPACE /' /
DATA INPFIL /'(AUX) /

LUN=10
LUN1=20
CR=15B
LPAR=50B
IAPP=47B
BA1=61B
BA2=62B
NTIM=0

C * WRITE FORM-FEED
CALL OUTCH(1,14B)
CALL OUTCH(1,31B)

C *****
C * PUT SPACES IN INPFIL

400 DO 450 I=6,29
INPFIL(I:I)=SPACE
450 CONTINUE

C * PUT SPACES IN SLINE
DO 10 I=1,87
SLINE(I:I)=SPACE
10 CONTINUE

C *****
C * ASK FOR BATCH-PROCESS-NUMBER (DEFAULT=1)

CALL OUTCH(1,12B)
20 WRITE(1,1000)
IKAR=INCH(1).AND.177B
IF(IKAR.EQ.CR)GOTO 40
IF(IKAR.EQ.BA1)GOTO 30
IF(IKAR.EQ.6)GOTO 300
IF(IKAR.EQ.BA2)GOTO 30
25 CALL OUTCH(1,7)
WRITE(1,1100)
GOTO 20
30 AUXCAR=IKAR
IKAR=INCH(1).AND.177B
IF(IKAR.EQ.CR)GOTO 35
GOTO 25
35 CALL OUTCH(1,15B)
CALL OUTCH(1,12B)
GOTO 45
40 AUXCAR=BA1
45 AUXCAR=ISHFT(AUXCAR,8)
BANO=KAR

C *****
C * GET BATCH-INPUT-FILE-NAME

50 WRITE(1,2000)
AUXCAR=INCH(1).AND.177B
IF(AUXCAR.EQ.LPAR)GOTO 55
IF(AUXCAR.EQ.CR)GOTO 50
IF(AUXCAR.EQ.6)GOTO 300

```

I=6
GOTO 70
55 I=1
GOTO 70
65 I=I+1
66 AUXCAR=INCH(1).AND.177B
IF(AUXCAR.EQ.21B.OR.AUXCAR.EQ.1)GOTO 75
IF(AUXCAR.EQ.CR)GOTO 80
IF(AUXCAR.EQ.6)GOTO 300
70 AUXCAR=ISHFT(AUXCAR,8)
INPFIL(I:I)=KAR
IF(I.EQ.26)GOTO 500
GOTO 65

C *****
C * INPUT EDITING

75 IF(AUXCAR.EQ.1)GOTO 77
DO 76 J=6,30
INPFIL(J:J)=SPACE
76 CONTINUE
CALL OUTCH(1,57B)
CALL OUTCH(1,7)
GOTO 50

C * (CTRL) A
77 I=J-1
INPFIL(I:I)=SPACE
CALL OUTCH(1,210B)
CALL OUTCH(1,40B)
CALL OUTCH(1,210B)
CALL OUTCH(1,7)
GOTO 66

C *****
C * FILE-NAME IS NOW IN CHARACTER INPFIL

80 ITAB1=I
CALL OUTCH(1,15B)
CALL OUTCH(1,12B)

C *****
C * OPEN THE INPUTFILE AND GET INFORMATION FROM
C * THIS FILE :
C * - BATCH-OUTPUT-FILE-NAME
C * - SEMAPHORE-FILE-NAME
C *****

OPEN(LUN,ERR=600,FILE=INPFIL,STATUS='OLD',ACCESS='R')
REWIND LUN
CALL FILINF(LUN,SEMAPH,LISTFI,BATOUT,ISTAT)
CLOSE (UNIT=LUN)
IF(ISTAT.NE.0)GOTO 800

C *****
C * OPEN THE SEMAPHORE-FILE

OPEN(LUN,ERR=610,FILE=SEMAPH,STATUS='OLD',ACCESS='RW')
REWIND LUN
READ(LUN,6000,ERR=650)SLINE
IF(SLINE(1:1).NE.SPACE
1 .OR.SLINE(14:14).NE.SPACE
2 .OR.SLINE(59:59).NE.SPACE)
3 GOTO 700

REWIND LUN
SLINE(12:12)=BANO
WRITE(LUN,6000,ERR=650)SLINE
WRITE(LUN,6000,ERR=650)INPFIL
CLOSE (UNIT=LUN)

C *****
C * EMPTY THE BATCH-OUTPUT-FILE

OPEN(LUN,ERR=620,FILE=BATOUT,STATUS='OLD',ACCESS='W')
CLOSE (UNIT=LUN)

C *****
C * BUILD THE COMMAND STRING IN ARRAY BACOM

IFILL1=8
BACOM(IFILL1:IFILL1)=BANO
IFILL1=IFILL1+2
IFILL2=IFILL1+ITAB1
BACOM(IFILL1:IFILL2)=INPFIL(1:ITAB1)
IFILL1=IFILL2
IFILL2=IFILL1+11
BACOM(IFILL1:IFILL2)=BATOUT

C *****
C * APPEND THE BATCH-JOB

CALL COMND(BACOM)
WRITE(1,4000)BANO

```

```
NTIM=NTIM+1
STARTED(NTIM)=INPFIL
GOTO 800
```

C * LIST PREVIOUS STARTED JOBS

```
300  CALL OUTCH(1,14B)
      CALL OUTCH(1,31B)
      WRITE(1,*) ' PREVIOUSLY STARTED JOBS : '
      WRITE(1,*) ' ===== '
      IF(NTIM.EQ.0)GOTO 320
      DO 310 I=1,NTIM
          WRITE(1,2600)I,STARTED(I)
310  CONTINUE
      GOTO 800
320  WRITE(1,*) ' '
      WRITE(1,*) ' NONE! '
      GOTO 800
```

C *****

C *****
C * FILE NAME IS TOO LONG FOR ARRAY INPFIL

```
500  CALL OUTCH(1,7)
      WRITE(1,5000)
      GOTO 800
```

C *****
C * ERROR IN OPENING FILES

```
600  IERR=ERRCODE
      CALL OUTCH(1,7)
      WRITE(1,6100)INPFIL,IERR
      CALL MON64(IERR)
      GOTO 800
```

```
610  IERR=ERRCODE
      CALL OUTCH(1,7)
      WRITE(1,6100)SEMAPH,IERR
      CALL MON64(IERR)
      GOTO 800
```

```
620  IERR=ERRCODE
      CALL OUTCH(1,7)
      WRITE(1,6200)BATOUT,IERR
      CALL MON64(IERR)
      GOTO 800
```

C * ERROR IN READ/WRITE OPERATIONS, FILE: SEMAPH

```
650  IERR=ERRCODE
      CALL OUTCH(1,7)
      WRITE(1,6500)SEMAPH,IERR
      CALL MON64(IERR)
      GOTO 800
```

C *****
C * SEMAPHORE IS NOT FREE

```
700  CALL OUTCH(1,7)
      WRITE(1,7000)SLINE(1:8)
```

C *****
C * ASK IF MORE JOBS TO BE STARTED (TERMINATE IF NO)

```
800  WRITE(1,2500)
      IANSW=INCH(1)
      ITERM=INCH(1)
      IF(ITERM.EQ.215B)GOTO 810
      IF(ITERM.EQ.6)GOTO 300
      GOTO 800
810  IF(IANSW.EQ.131B)GOTO 400
      IF(IANSW.EQ.116B)GOTO 850
      IF(IANSW.EQ.6)GOTO 300
      GOTO 800
850  WRITE(1,8000)
```

C *****
C * FORMATS

```
1000  FORMAT(/,1H$, *BATCH-PROCESS-NUMBER : *)
1100  FORMAT(/,1H$, *ILLEGAL PARAMETER (BATCH 1 OR 2)!*,/)
2000  FORMAT(/,1H$, *BATCH-INPUTFILE-NAME : *)
2500  FORMAT(/,1H$, *MORE JOBS TO BE STARTED (Y/N)? *)
2600  FORMAT(1H,11, * : *,A)
6000  FORMAT(A)
6100  FORMAT(/,1H, *ERROR IN OPENING FILE : *,A,/,
1      1H, *FILE SYSTEM ERROR : *,Z3,/)
6200  1 FORMAT(/,1H, *ERROR IN OPENING FILE : *,A,/,
1      1H, *FILE SYSTEM ERROR : *,Z3,/)
6500  1 FORMAT(/,1H, *ERROR IN READ/WRITE OPERATION, FILE : *,A,/,
1      1H, *FILE SYSTEM ERROR : *,Z3,/)
7000  1 FORMAT(/,1H, *SEMAPHORE IS NOT FREE!*,/,
1      1H, *SYSTEM FOR : *,A,* IS NOT READY!*,/)
```

```
5000  FORMAT(/,1H ,*TOO LONG FILE-NAME!*,/)  
4000  FORMAT(/,1H ,*JOB IS APPENDED TO BATCH-PROCESSOR-*,A,/)   
8000  FORMAT(/,1H ,*----- EXIT -----*,/)
```

```
C  ****
```

```
END
```

```
EOF
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